

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/053960 A1**

(51) International Patent Classification<sup>7</sup>: **B41J 2/175**

**PRIESTLEY, Richard** [GB/GB]; Marsh Lane, Boston, Lincolnshire PE21 7TX (GB).

(21) International Application Number:  
PCT/GB2004/005104

(74) Agents: **DEMPSTER, Benjamin, John, Naftel et al.**; Withers & Rogers, Goldings House, 2 Hays Lane, London SE1 2HW (GB).

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0328013.8 3 December 2003 (03.12.2003) GB  
0329001.2 15 December 2003 (15.12.2003) GB  
0404432.7 27 February 2004 (27.02.2004) GB

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **DYNAMIC CASSETTE INTERNATIONAL LTD.** [GB/GB]; Marsh Lane, Boston, Lincolnshire PE21 7TX (GB).

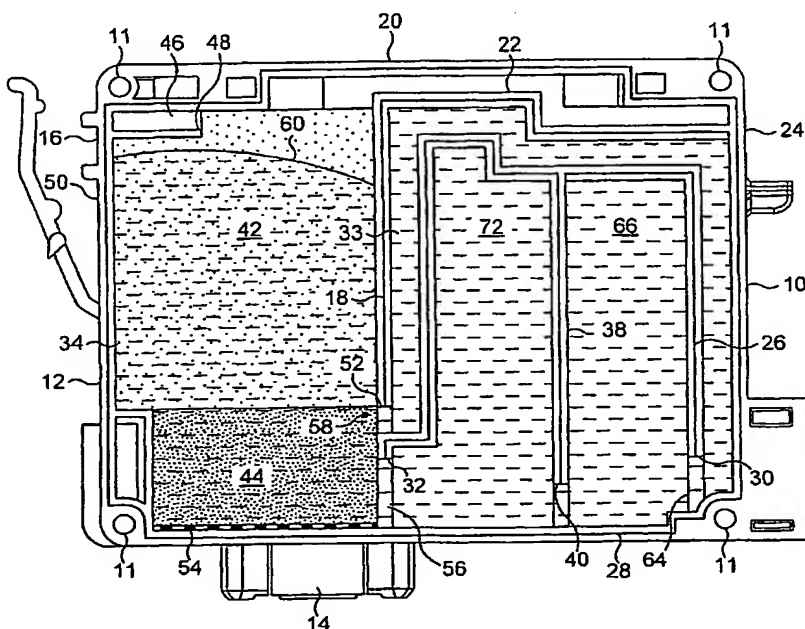
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **STUDHOLME, John, William** [GB/GB]; Marsh Lane, Boston, Lincolnshire PE21 7TX (GB). **VICKERS, Kevin** [GB/GB]; Marsh Lane, Boston, Lincolnshire PE21 7TX (GB).

[Continued on next page]

(54) Title: AN INK CARTRIDGE



(57) Abstract: An ink cartridge (10) comprises an ink tank (12), the ink tank (12) comprising a first chamber (34), the cartridge (10) including an air vent (16) and an ink supply outlet (14) both opening into the first chamber (34) the cartridge (10) further including means (33) defining a volume in which air and ink can collect to form a buffer against expansion or contraction of ink and air in the first chamber (34) to prevent leakage from the cartridge (10).

WO 2005/053960 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*